HUNTER™ Station Controller

Substation Automation

G&W

Engineered to order. Built to last.

HUNTER™ Station Controller

The HUNTER™ is the newest member of the Station Controller family of devices. Station Controllers not only combine the functions of a traditional RTU with the functions of a PLC and Terminal Server, but also include a Web Server and Data Concentrator. Ideally suited for substation automation, the Hunter™ has 12 direct AC input channels. Modular I/O Architecture allows the HUNTER™ to be scaled to the desired point size up to 32 Digital Inputs and 16 Digital outputs and a database size of 16,000 points. The HUNTER™ uses the raw voltage and current inputs to measure and calculate the most common electrical parameters such as; Voltage, Current, Watts, VARs, Power Factor, Frequency, Watt hours, etc. Remote Power Quality Monitoring with Oscillography is also a valuable feature of the HUNTER. Power Quality is accurately measured with 32 samples per cycle.

Power Quality measurements include:
- Total Harmonic Distortion in Voltage THD (V)
- Total Harmonic Distortion in Current THD (I)
- Harmonic Spectrum up to the 15th harmonic

Event Triggered Oscillography for all analog input AC channels may be triggered by:
- Fault Current
- Harmonic Distortion (Voltage and/or Current)
- Sag
- Swell

HUNTER™ RTU Controller

The user can set up oscillography triggers to capture data from each AC input. The HUNTER™ has a dedicated serial port for configuration, point monitoring and diagnostics. A simple terminal connected to this port will act as the Human interface. When connected to an Ethernet LAN, the same configuration and diagnostic operations can be performed remotely on the RTU via Telnet or Web Browser. A powerful Web Server is also integrated within the HUNTER™ This user friendly tool allows operation, maintenance and configuration of the RTU without the need of proprietary software. Any standard web browser allows direct access to the web server built-in within the SCOUT™. Simple configuration is provided by the Points Mapping Wizard which allows points mapping of third party IEDs and I/O cards in a graphical environment. An extensive library of point maps is available for the most common IEDs available on the market, making IED point mapping a few clicks of the mouse.

Features / Benefits
- RTU, PLC, Terminal Server and Data Concentrator
- Modular I/O
- Retrofit compatible
- 12 AC Inputs
- Power Quality
- Built in Web server
- Points mapping wizard
- Time Synchronization (IRIG-B)

Typical Specifications	
Processing	• Freescale MPC860T PowerPC • 16 MB FLASH Memory • Memory to 4Mb RAM and 1Mb • NVRAM battery backed • Nonvolatile EEPROM for system configuration parameters
Communications	• 2 serial RS232 for master, IED, or terminal server • 2 serial RS232 for diagnostic and configuration • 1 serial RS485 for inter module LAN • 10/100Ba
Environmental	• 0°C to 60°C operating • -40°C to 70°C operating (optional) • 10°C to 85°C storage • Humidity 10-90% relative non-condensing • Surge Protection per ANSI C37.90 on all I/Os
Time Synchronization	• Demodulated IRIG-B input
Input/Output Boards	• Compact and rack mountable I/O • Boards are available for Digital & • Analog Inputs & Digital Outputs
Digital Inputs	• 32 Digital Inputs • Optically isolated with LED indication • Scan time 1 millisecond • Configurable as Accumulator, Sequence of Events, or Alarm/Status • Internal or external wetting • Debounce and noise rejection
Analog Inputs	• 12 AC Analog Inputs • Potential range to 150V • Current range to 10A for measurements, 20A fault ind. • Resolution 11 bits plus sign • 32 samples per cycle • 4 DC mA inputs
Digital Outputs	• 8 (expandable to 16) Form A, wetted contacts for driving interposing relays. • Contact rating is 2A at 30V DC • Interface for isolated contact interposing relays • Select-Check-Operate sequence • Hardware protection against runaway processor • Momentary, pulsed or latched outputs supported
Large Points Database Capacity	• Maximum Database Size of 16,000 points
Master Station Protocols	• DNP3.0 serial • DNP3.0 over TCP/IP • IEC 60870-5-101 • L&G 8979 • TeleGyr 8979 • QUICS4/QUIN • IEC 61850
IED Protocols	• DNP • DNP over TCP/IP • Modbus RTU • Modbus TCP • SEL Protocol • Cooper 2179 • IEC 60870-5-103 • ABB SPA-BUS • QUIC4/QUIN

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Since 1905, G&W Electric has been a leading provider of innovative power distribution solutions, including the latest in load and fault interrupting switchgear, reclosers, system protection equipment and distribution automation. G&W is headquartered in Bolingbrook, IL, with manufacturing facilities and sales support in more than 100 countries including China, Mexico, Canada, UAE, India, Singapore and Brazil. We help our customers meet their challenges and gain a competitive edge through a suite of advanced products and technical services.

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